# IGOLDENLASER
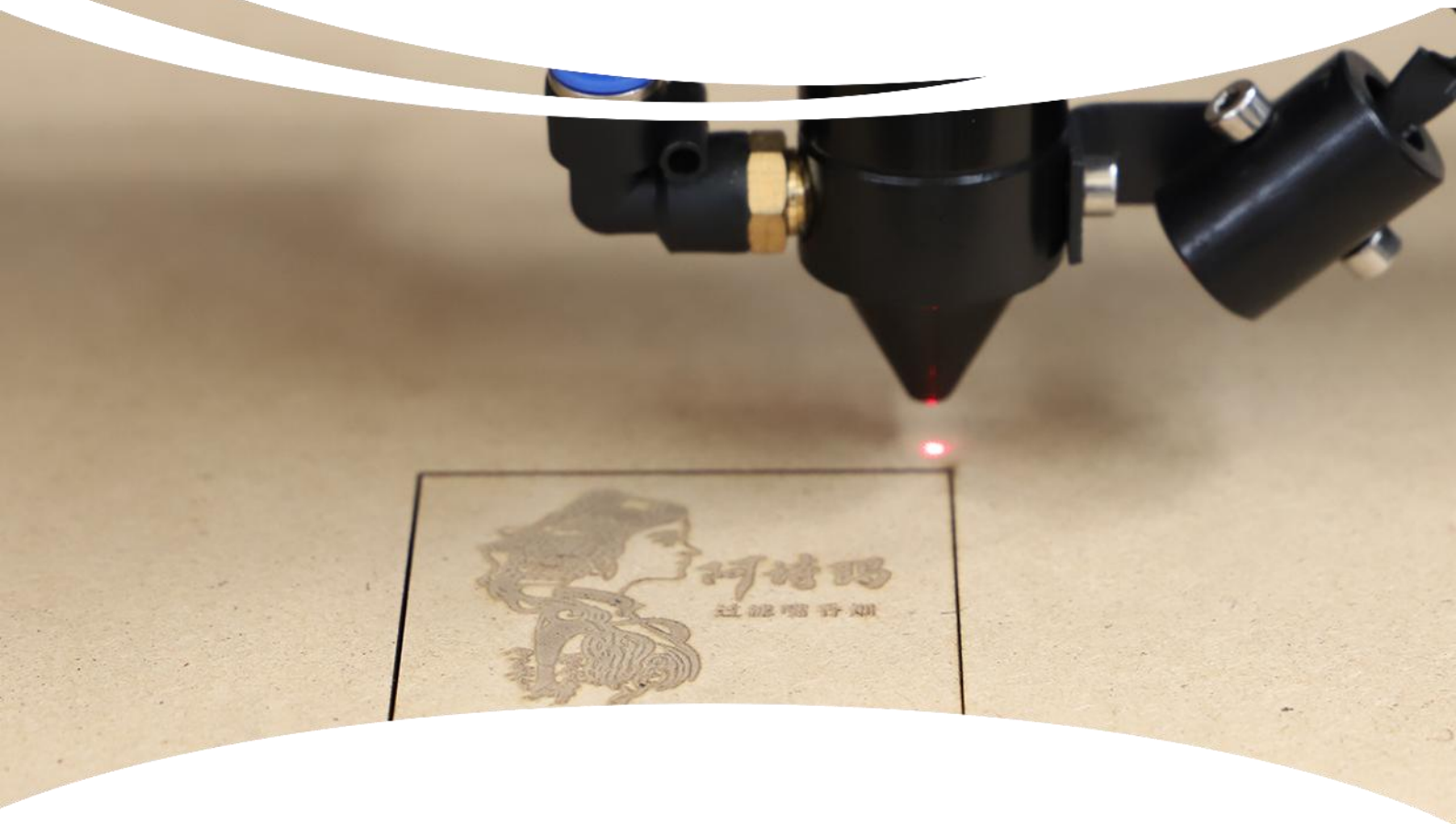
# TECHNICAL PROPOSAL

## IGL-B1325

**CO2 Laser Cutting Machine**

# ● PRODUCT OVERVIEW

Carbon dioxide laser is a gas molecular laser, the working substance is $CO_2$ gas, auxiliary gases are nitrogen helium, xenon and hydrogen, etc., because the energy conversion efficiency of this laser is as high as 25%, it is often a high-power output laser, carbon dioxide laser wavelength 10.6 microns, is impossible to see infrared light, good stability, widely used.

Using the most advanced DSP control technology in the world, the first industry-leading continuous and fast curve cutting function and the shortest machining path optimization function, greatly improving work efficiency. Automatic light attenuation compensation for the whole process of engraving, to ensure that different areas of cutting to maintain consistency, fast cutting control software design and high-speed motion buffer function, can improve production efficiency.
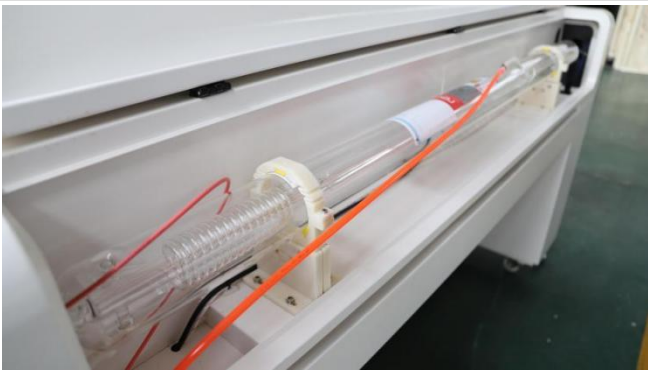
# ● PRODUCT PICTURE

| Offer of CO2 Laser Cutting Machine | |
|---|---|
| Seller | **Company Name:** Shandong iGolden CNC Technology Co.,Ltd.<br><br>**Company Address:** 5th Floor, Building 2-2, Enterprise Park, East 8, Tangye Middle Road, Licheng District, Jinan City, Shandong Province，China<br><br>**Whatsapp:**<br><br>**Mobile:**<br><br>**Contact Person:**<br><br>**Email Address:** |
| **Model** | iGL-B |
| **Type** | CO2 laser |
| **Quotation**<br><br>**FOB QINGDAO**<br><br>**USD** | |
| **Delivery** | |
| **Payment** | |
| **Packing Size** | |
| **Gross weight** | |
| **Container** | |

## ● Techical Parameter

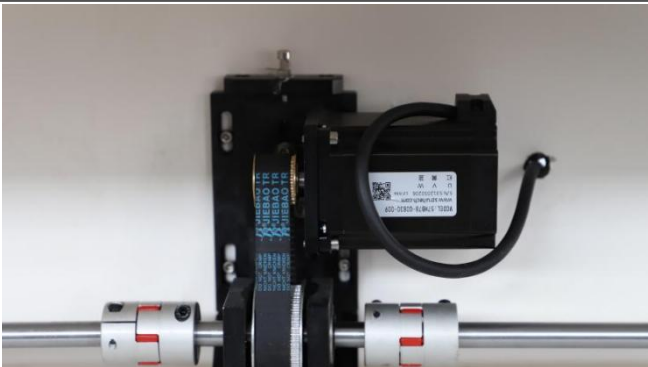| Model | iGL-B-1325 |
|---|---|
| Working area | 1300mm x 2500mm |
| Laser power | W2/W4/W6/W8 |
| Laser type | $CO_2$ sealed laser tube, water-cooled |
| Cooling way | Water cooling CW3000/5000/5200 |
| Engraving speed | 0-60000cm/min |
| Cutting speed | 0-30000cm/min |
| Power supply | 220V/50Hz,  110V/60Hz, |
| Laser energy control | 1-100% software Settings |
| Graphic format supported | BMP, PLT, DST, DXF, AI |
| Software supported | CorelDraw, Photoshop, AutoCAD, Tajima |
| Driving system | 3-phase stepper motor with decelerator |
| Air assist | Air pump |
| Dichroic Cutting | Yes |
| Optional part | Red light pointer |
| Applicable material | Suits, Textile, Fabric, Cloth, Jeans, Leather, Acrylic, Wood, Rubber, Paper, Rubber, Dual Color Board, etc... |

# ● Configuration Introduction

| | |
|---|---|
|  | ## CO2 Laser tube<br><br>Using Beijing RECI laser tube, high-end, stable performance, uniform spot distribution, high work efficiency. |
|  | ## Laser cutting head<br><br>Precision cutting can be adjusted according to the height of the material to be cut to ensure smooth cutting process and effective adjustment of the spot size. |
|  | ## Motor<br><br>According to the customer's production process requirements, it is matched with a precise drive motor to ensure accurate positioning and high-speed cutting. |
|  | ## Guide<br><br>Adopt Taiwan CSK guide rail, and high-quality belt transmission, fine craftsmanship, to ensure the high-precision performance of the cutting machine. |

## Optical lens

3 mirrors + 1 focusing mirror, imported from Singapore, to ensure the maximum effect, quality, high quality and high efficiency in the laser transmission process.

## Control System

Display preview graphics and processing status, can run independently, and work stably and reliably.
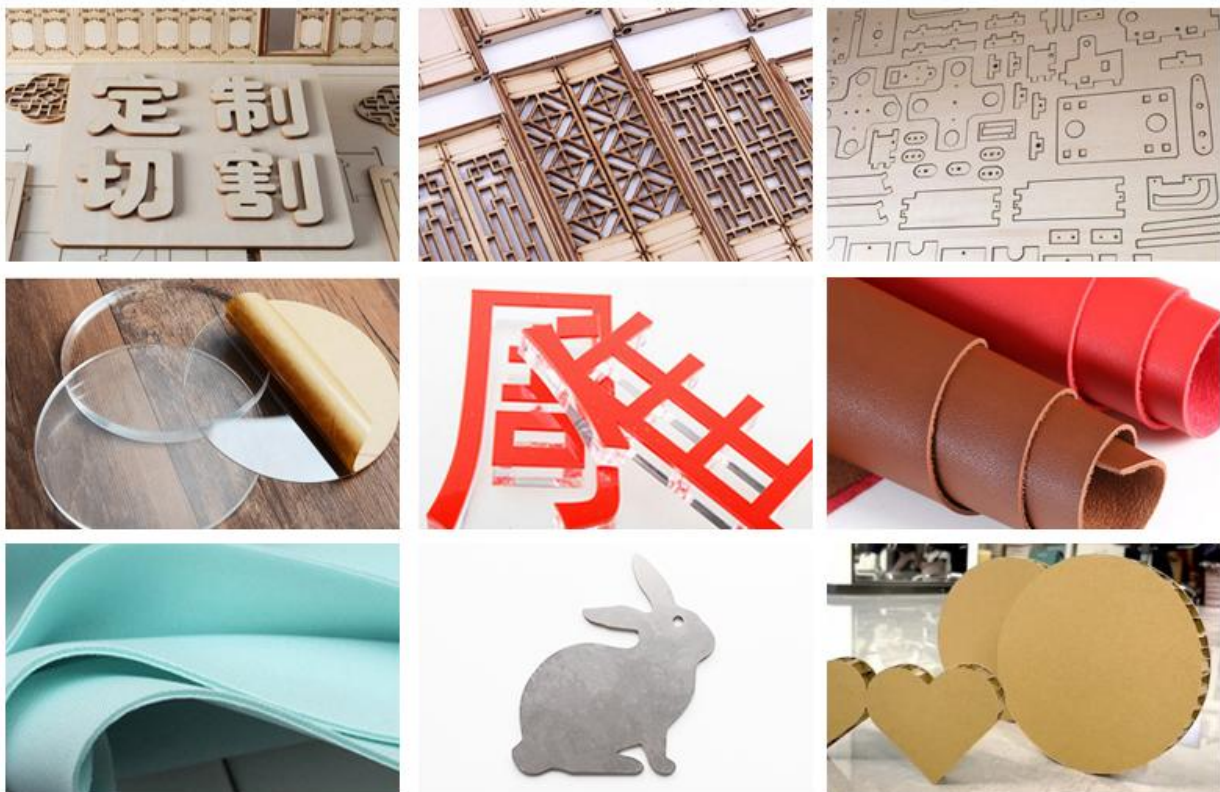
# Advanced Performance

- High processing efficiency, 10 to 15 times that of manual engraving; high precision, low cost, and good printing effect;

- The optimized design of the mechanical structure and the smallest overall size of the whole machine not only saves your precious space, but also the structure should not be deformed and the cutting precision is high;

- Taiwan square linear guide, long life;

- The use of patented technology makes the engraving effect of the rubber plate better, and it is not easy to burn;

- Genuine laser engraving software, powerful; engraving and cutting can be carried out at the same time.

## ● Samples

> Handicraft industry: exquisite patterns and characters are carved on wood, bamboo chips, ivory, bones, leather, marble, shells and other materials;

> Advertising industry: mainly used for two-color plate engraving, acrylic engraving and cutting, sign engraving, crystal, trophy engraving, license engraving, etc.;

> Leather garment processing industry: complex text and graphic engraving, cutting, engraving and hollowing out on synthetic leather, artificial leather, fabric, and fur; cutting, cutting, Sculpting, beyond fashion, showing individuality;

> Model industry: making sand table building models, aircraft models;

> Packaging industry: engraving and printing rubber sheet, plastic sheet, double-layer sheet, die-cutting blade, etc.;

> Other industries: engraving marks on decorative materials such as marble, granite, glass, crystal, paper cutting, greeting cards and other paper craft cutting.

OFFICE

企业简介 | Company Profile

发展历程 | Development History

不负韶华

Business scope

读人识己
色彩性格